

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

- 1 - (currently amended) A device for receiving and/or transmitting electromagnetic waves with radiation diversity, ~~characterized in that it comprises~~ comprising, on a common substrate ~~(3)~~, at least a first antenna of the slot type ~~(1)~~, the slot being in the form of a closed curve of perimeter equal to $k'\lambda_s$ where λ_s is the wavelength in the slot at the operating frequency and k' an integer, ~~and the~~ said first antenna being electromagnetically coupled to a first supply line ~~(6)~~, and a second antenna radiating in a direction parallel to the substrate ~~(2)~~, ~~the~~ said second antenna being positioned inside the curve forming the first antenna and being connected to a second supply line ~~(7)~~, said first and second supply lines being connected via a switching means to means for exploiting the electromagnetic waves.
- 2 - (currently amended) The device as claimed in claim 1, ~~characterized in that~~ wherein the first supply line ~~(6)~~ is implemented in microstrip technology or in coplanar technology.
- 3 - (currently amended) The device as claimed in claim 2, ~~characterized in that~~ wherein the first supply line ~~(6)~~ has a length between its end and the electromagnetic coupling point equal to $k\lambda_m/4$, where k is an odd integer and λ_m the guided wavelength on the supply line at the central operating frequency with $\lambda_m = \lambda_0/\sqrt{\epsilon_{r_{eff}}}$, where λ_0 is the free-space wavelength and $\epsilon_{r_{eff}}$ the effective permittivity of the line.

- 4 - (currently amended) The device as claimed ~~in any one of the preceding claims, characterized in that~~ in claim 1, wherein the second supply line (7) is implemented in microstrip technology or by a coaxial line.
- 5 - (currently amended) The device as claimed in claim 4, ~~characterized in that~~ wherein when the second supply line is implemented in microstrip technology, a connection is made at the slot antenna between the part that is external and [the]a part that is internal to the slot.
- 6 - (currently amended) The device as claimed in claim 5, ~~characterized in that~~ , wherein the connection is formed by a conducting insert (8) having a width equal to 2 to 3 times the width of the line implemented in microstrip technology.
- 7 - (currently amended) The device as claimed in ~~either one of claims 5 and 6~~ claim 5, ~~characterized in that~~ wherein the connection is positioned in an electrical short-circuit plane for the slot.
- 8 - (currently amended) The device as claimed in ~~any one of claims 1 to 7~~ claim 1, ~~characterized in that~~ wherein the ~~slot~~ first antenna of slot type is formed by an annular slot or a slot of polygonal shape such as a square or rectangle.
- 9 - (currently amended) The device as claimed ~~in any one of claims 1 to 8, characterized in that~~ in claim 1, wherein the second antenna (2) radiating parallel to the substrate is formed by a monopole or a helix operating in transverse mode.
- 10 - (currently amended) The device as claimed in claim 8, ~~characterized in that~~ wherein it ~~may~~ comprises several slot antennas of slot type interlocking one with another.
- 11 - (currently amended) The device as claimed in ~~any one of claims 1 to 10, characterized in that~~ claim 1, wherein the second antenna (2) radiating parallel to the substrate is positioned at the

center of the ~~slot~~ antenna or antennas of slot type.

12 - (new) The device as claimed in claim 6, wherein the insert is positioned in an electrical short circuit plane for the slot.